

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 78-30

NPDES NO. CA0037699

WASTEWATER RECLAMATION  
REQUIREMENTS FOR:

VALLEJO SANITATION AND  
FLOOD CONTROL DISTRICT

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter Board, finds that:

1. The Vallejo Sanitation and Flood Control District, hereinafter discharger, submitted a report of waste discharge dated March 28, 1977, for the diversion of up to 0.5 mgd of treated municipal wastewater from their plant for various reclamation uses. Uses consist of dust control and compaction at construction sites, irrigation and equipment cleaning at the treatment plant, landscape irrigation in the Vallejo area, and street sweeping machines.
2. All wastewater used by construction operations will be picked up by tank truck and sprayed or flooded onto the use area. The discharger shall serve as the truck permitting agency.
3. The wastewater treatment facilities will provide secondary treatment, including filtration, coagulation, and carbon absorption.
4. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Paragraph 2 could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
5. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan specify those limits prescribed in Title 17, Section 8025 through Section 8050, California Administrative Code. These objectives have been superseded by Title 22, Sections 60301 - 60357, California Administrative Code.
6. The proposed use of reclaimed wastewater involves a minor alteration to land and as such is exempt from the provisions of the Environmental Quality Act of 1970 as a class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines). The project will not have a significant effect on the environment.

7. This Regional Board has notified the discharger, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
8. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Wastewater Use Specifications

1. The treatment distribution or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed water shall be at all times an adequately disinfected, oxidized water and shall meet the following quality limits at all times:

5-day BOD	40.0 mg/l, maximum
Dissolved Oxygen	1.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l, maximum
Coliform Organisms	Median MPN shall not exceed twenty-three (23) coliform organisms per 100 milliliters of sample at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven (7) analyses.
3. All tank trucks and spray equipment which may at any time contain wastes shall be adequately and clearly identified with warning signs and discharger and user shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.

B. Reclaimed Wastewater Use Prohibitions

1. No wastewater shall be applied to the use areas during periods of rainfall or when soils are saturated.
2. No reclaimed wastewater used for irrigation shall be allowed to escape the specified use areas, either by surface flow or airborne spray.
3. No reclaimed wastewater shall be applied for uses not approved in this Order or on locations other than those approved by the discharger and no wastewater shall be disposed of into storm sewers.
4. This Order does not authorize irrigation of parks, playgrounds, school-yards, or residential areas. The Board will consider amendments to this Order when such uses are proposed.

5. No reclaimed wastewater used for irrigation shall be applied closer than 50 feet from picnic tables and other food and drinking water outlets.
6. No reclaimed wastewater shall be injected into any fixed sprinkler system outside the plant grounds.

C. Provisions

1. Reclamation shall not commence until the discharger demonstrates to the satisfaction of the Executive Officer that the quality requirements of this Order will be met and receives his written authorization.
2. If the discharger violates requirement A.2., reclamation of wastewater shall cease immediately, and this office shall be notified. Reclamation shall recommence when the discharger is in compliance.
3. A licensing system and surveillance program shall be developed by the discharger for the control of trucking operations. Each truck driver issued a license must be instructed as to the requirements contained herein and the potential health hazards associated with the reuse of wastewater. Use of reclaimed wastewater shall not commence until the licensing and surveillance program has been established.
4. This Order includes all items of the attached "Standard Provisions for the Use of Reclaimed Water" dated March 15, 1973.
5. A list of initial use areas for uses authorized by this Order shall be filed with the Regional Board and the Solano County Health Department for approval within 30 days of adoption of this Order, and before use begins.
6. Additional use areas for uses authorized by this Order may be approved by the discharger, but only with the concurrence of the Solano County Health Department. A list of additional approved use areas shall be submitted to the Executive Officer monthly, in advance of initial use.
7. The Executive Officer may withdraw authorization for specific uses in the event that the terms and conditions of this Order are violated in such uses.
8. The discharger is required to submit each month a report according to the schedule for sampling, measurement, and analysis given in Table I (attached).
9. No wastewater shall be provided users unless the truck driver presents an authorization issued by the discharger. Said authorization shall include user's name, driver's name, authorized uses and locations, and a summary of use restrictions as specified in this Order. This authorization shall be presented on request to the staff of the Regional Board.
10. The discharger and users shall take all measures necessary to minimize public contact with reclaimed wastewater.

11. The discharger is required to submit a report by the end of each calendar year to include the following:
  - a. Locations at which and volumes of reclaimed wastewater has been applied for irrigation.
  - b. Construction projects which have benefited from the use of reclaimed wastewater.
  - c. Community acceptance, benefits and costs of the reclamation program.
  - d. Any adverse impacts of the program, including possible hazards to public health or degradation of ground or surface waters.
12. These requirements shall not be effective until such time as the Executive Officer receives in writing approval of these requirements from the State Department of Health.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on April 18, 1978.

FRED H. DIERKER  
Executive Officer

Attachments:

Standard Provisions for the Use of  
Reclaimed Wastewater dated 3/15/73

Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

Vallejo Sanitation & Flood Control District

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NPDES NO. CA 0037699

ORDER NO. 78-30

CONSISTS OF

PART A

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-001	Coincident with sampling station E-001 in the discharger's monitoring program for the permit covering discharge to Carquinez Strait.
E-002	At the hydrant on Ryder Street to be used as the filling point for tank trucks.

II. EXCEPTIONS

The following sections of Part A are excluded:

- a. All of Section C except C.2., C.5.b., C.5.d.(3).
- b. All of Section D except D.2.b.
- c. All of Section F except F.3.a., b., d., f., g.(1), F.4.

I, Fred H. Dierker, Executive Officer, hereby certify that this self-monitoring program has been established to document compliance with Order No. 78-30 and becomes effective on the "Date Ordered," below.

FRED H. DIERKER  
Executive Officer

Date Ordered April 18, 1978

Attachment:  
Table I

**TABLE I**  
**SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS**

Sampling Station	E-001		E-002											
TYPE OF SAMPLE	G	O	G	O										
Reclaimed Wastewater Volume (gpd)	D <sup>(1)</sup>		D <sup>(1)</sup>											
BOD, 5-day, 20° C, or COD (mg/l)	W													
Chlorine Residual & Dosage (mg/l)														
Settleable Matter (ml/1-hr. & cu. ft./day)														
Total Suspended Matter (mg/l & kg/day)														
Oil & Grease (mg/l & kg/day)														
Coliform (Total or Fecal) (MPN/100 ml) per req't	D <sup>(1)</sup>		D <sup>(1)</sup>											
Fish Toxicity, 96-hr. TL <sub>50</sub> % Survival in undiluted waste														
Ammonia Nitrogen (mg/l & kg/day)														
Nitrate Nitrogen (mg/l & kg/day)														
Nitrite Nitrogen (mg/l & kg/day)														
Total Organic Nitrogen (mg/l & kg/day)														
Total Phosphate (mg/l & kg/day)														
Turbidity (Jackson Turbidity Units)														
pH (units)														
Dissolved Oxygen (mg/l and % Saturation)	D <sup>(1)</sup>		D <sup>(1)</sup>											
Temperature (°C)														
Apparent Color (color units)														
Secchi Disc (inches)														
Sulfides Dissolved (mg/l)	W													
Arsenic (mg/l & kg/day)														
Cadmium (mg/l & kg/day)														
Chromium, Total (mg/l & kg/day)														
Copper (mg/l & kg/day)														
Cyanide (mg/l & kg/day)														
Silver (mg/l & kg/day)														
Lead (mg/l & kg/day)														

**TABLE I (continued)**  
**SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS**

Sampling Station	E-001		E-002										
TYPE OF SAMPLE	G	O	G	O									
Mercury (mg/l & kg/day)													
Nickel (mg/l & kg/day)													
Zinc (mg/l & kg/day)													
PHENOLIC COMPOUNDS (mg/l & kg/day)													
All Applicable Standard Observations		D (1)		D (1)									
Bottom Sediment Analyses and Observations													
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)													

LEGEND

Type of Sample

G = grab sample  
O = observation

Frequency of Sampling

D = daily  
W = once each week

(1) Samples are required to be taken only on days any reclaimed wastewater is being diverted.